

WHAT IS CLAIMED IS:

1. An information processing apparatus for  
controlling a peripheral, comprising:

5 obtaining means for obtaining a function of said  
peripheral; and

control means for automatically forming a user  
interface of a control program for controlling said  
peripheral in accordance with the function obtained by  
said obtaining means.

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2. The information processing apparatus according  
to claim 1, wherein said control means controls a  
display of the user interface for said peripheral in  
accordance with the function obtained by said obtaining  
15 means.

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3. The information processing apparatus according  
to claim 1, wherein said obtaining means obtains  
information concerning a setting range of the function  
20 of said peripheral.

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4. The information processing apparatus according  
to claim 3, wherein the information concerning said  
setting range is represented by a combination of  
25 attributes in which job setting is inhibited.

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5. The information processing apparatus according

to claim 1, wherein said obtaining means obtains information concerning function choices of said peripheral.

5           6. The information processing apparatus according to claim 1, wherein said obtaining means obtains an attribute list indicating the function of the peripheral from said peripheral, and designates an attribute ID of the attribute list to obtain an  
10 attribute value.

          7. The information processing apparatus according to claim 1, wherein said obtaining means obtains an attribute list indicating the functions of a physical  
15 device control program, a logical device control program, a resource control program and a general control program for supervising the programs of said peripheral from the peripheral.

20           8. The information processing apparatus according to claim 7, wherein said physical device control program is a scanner control program for controlling a scanner engine of said peripheral.

25           9. The information processing apparatus according to claim 7, wherein said physical device control program is a laser beam printer control program for

controlling a laser beam printer engine of said peripheral.

10. The information processing apparatus  
5 according to claim 7, wherein said physical device control program is an ink jet printer control program for controlling an ink jet printer engine of said peripheral.

10 11. The information processing apparatus according to claim 7, wherein said logical device control program is a print job control program for controlling a laser beam printer control program, or an ink jet printer control program, or the laser beam  
15 printer control program and the ink jet printer control program of said peripheral.

12. The information processing apparatus according to claim 7, wherein said logical device  
20 control program is a scanner job control program for controlling a scanner control program of said peripheral.

13. The information processing apparatus  
25 according to claim 7, wherein said logical device control program is a copy job control program for controlling a scanner control program and a laser beam

printer control program or an ink jet printer control program, or the laser beam printer control program and the ink jet printer control program of said peripheral.

5           14. The information processing apparatus according to claim 7, wherein said resource control program is a font control program for managing a font of said peripheral.

10           15. The information processing apparatus according to claim 7, wherein said resource control program is a form overlay control program for managing a form overlay of said peripheral.

15           16. The information processing apparatus according to claim 7, wherein said resource control program is a log control program for managing a log of said peripheral.

20           17. The information processing apparatus according to claim 7, wherein said resource control program is a color profile control program for managing a color profile of said peripheral.

25           18. An information processing method in an information processing apparatus for controlling a peripheral, comprising the steps of:

obtaining a function from said peripheral; and  
automatically forming a user interface of a  
control program for controlling said peripheral in  
accordance with the obtained function.

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19. The information processing method according  
to claim 18, further comprising the step of controlling  
a display of the user interface for said peripheral in  
accordance with said obtained function.

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20. The information processing method according  
to claim 18, further comprising the step of obtaining  
information concerning a setting range of the function  
of said peripheral.

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21. The information processing method according  
to claim 20, wherein the information concerning said  
setting range is represented by a combination of  
attributes in which job setting is inhibited.

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22. The information processing method according  
to claim 18, further comprising the step of obtaining  
information concerning function choices of said  
peripheral.

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23. The information processing method according  
to claim 18, further comprising the steps of:

obtaining an attribute list indicating the  
function of the peripheral from said peripheral; and  
designating an attribute ID of the attribute list  
to obtain an attribute value.

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24. The information processing method according  
to claim 18, further comprising the step of obtaining  
an attribute list indicating the functions of a  
physical device control program, a logical device  
10 control program, a resource control program and a  
general control program for supervising the programs of  
said peripheral from the peripheral.

25. The information processing method according  
15 to claim 18, wherein said physical device control  
program is a scanner control program for controlling a  
scanner engine of said peripheral.

26. The information processing method according  
20 to claim 18, wherein said physical device control  
program is a laser beam printer control program for  
controlling a laser beam printer engine of said  
peripheral.

27. The information processing method according  
25 to claim 18, wherein said physical device control  
program is an ink jet printer control program for

controlling an ink jet printer engine of said peripheral.

28. The information processing method according  
5 to claim 18, wherein said logical device control  
program is a print job control program for controlling  
a laser beam printer control program, or an ink jet  
printer control program, or the laser beam printer  
control program and the ink jet printer control program  
10 of said peripheral.

29. The information processing method according  
to claim 18, wherein said logical device control  
program is a scanner job control program for  
15 controlling a scanner control program of said  
peripheral.

30. The information processing method according  
to claim 18, wherein said logical device control  
20 program is a copy job control program for controlling a  
scanner control program and a laser beam printer  
control program or an ink jet printer control program,  
or the laser beam printer control program and the ink  
jet printer control program of said peripheral.

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31. The information processing method according  
to claim 18, wherein said resource control program is a

font control program for managing a font of said peripheral.

32. The information processing method according  
5 to claim 18, wherein said resource control program is a form overlay control program for managing a form overlay of said peripheral.

33. The information processing method according  
10 to claim 18, wherein said resource control program is a log control program for managing a log of said peripheral.

34. The information processing method according  
15 to claim 18, wherein said resource control program is a color profile control program for managing a color profile of said peripheral.

35. A storage medium, which stores an information  
20 processing program executed in an information processing apparatus for controlling a peripheral,  
the information processing program comprising the steps of:

obtaining a function from said peripheral; and  
25 automatically forming a user interface of a control program for controlling said peripheral in accordance with the obtained function.



36. The storage medium according to claim 35, wherein a display of the user interface for said peripheral is controlled in accordance with said obtained function.

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37. The storage medium according to claim 35, wherein information concerning a setting range of the function of said peripheral is obtained.

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38. The storage medium according to claim 37, wherein the information concerning said setting range is represented by a combination of attributes in which job setting is inhibited.

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39. The storage medium according to claim 35, wherein information concerning function choices of said peripheral is obtained.

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40. The storage medium according to claim 35, wherein an attribute list indicating the function of the peripheral is obtained from said peripheral, and an attribute ID of the attribute list is designated to obtain an attribute value.

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41. The storage medium according to claim 35, wherein an attribute list indicating the functions of a physical device control program, a logical device

control program, a resource control program and a general control program for supervising the programs of said peripheral is obtained from the peripheral.

5           42. The storage medium according to claim 35, wherein said physical device control program is a scanner control program for controlling a scanner engine of said peripheral.

10           43. The storage medium according to claim 35, wherein said physical device control program is a laser beam printer control program for controlling a laser beam printer engine of said peripheral.

15           44. The storage medium according to claim 35, wherein said physical device control program is an ink jet printer control program for controlling an ink jet printer engine of said peripheral.

20           45. The storage medium according to claim 35, wherein said logical device control program is a print job control program for controlling a laser beam printer control program, or an ink jet printer control program, or the laser beam printer control program and  
25           the ink jet printer control program of said peripheral.

          46. The storage medium according to claim 35,

wherein said logical device control program is a scanner job control program for controlling a scanner control program of said peripheral.

5           47. The storage medium according to claim 35,  
wherein said logical device control program is a copy  
job control program for controlling a scanner control  
program and a laser beam printer control program or an  
ink jet printer control program, or the laser beam  
10 printer control program and the ink jet printer control  
program of said peripheral.

          48. The storage medium according to claim 35,  
wherein said resource control program is a font control  
15 program for managing a font of said peripheral.

          49. The storage medium according to claim 35,  
wherein said resource control program is a form overlay  
control program for managing a form overlay of said  
20 peripheral.

          50. The storage medium according to claim 35,  
wherein said resource control program is a log control  
program for managing a log of said peripheral.

25           51. The storage medium according to claim 35,  
wherein said resource control program is a color

profile control program for managing a color profile of said peripheral.

52. An information processing system comprising:  
5 a peripheral having a plurality of functions; and  
an information processing apparatus, comprising:  
obtaining means for obtaining the functions  
of said peripheral; and

control means for automatically forming a  
10 user interface of a control program for controlling  
said peripheral in accordance with the functions  
obtained by said obtaining means.

53. The information processing system according  
15 to claim 52, wherein said control means controls a  
display of the user interface for said peripheral in  
accordance with the function obtained by said obtaining  
means.

20 54. The information processing system according  
to claim 52, wherein said obtaining means obtains  
information concerning a setting range of the function  
of said peripheral.

25 55. The information processing system according  
to claim 54, wherein the information concerning said  
setting range is represented by a combination of

attributes in which job setting is inhibited.

56. The information processing system according  
to claim 52, wherein said obtaining means obtains  
5 information concerning function choices of said  
peripheral.

57. The information processing system according  
to claim 52, wherein said obtaining means obtains an  
10 attribute list indicating the functions of the  
peripheral from said peripheral, and designates an  
attribute ID of the attribute list to obtain an  
attribute value.

15 58. The information processing system according  
to claim 52, wherein said obtaining means obtains an  
attribute list indicating the functions of a physical  
device control program, a logical device control  
program, a resource control program and a general  
20 control program for supervising the programs of said  
peripheral from the peripheral.

59. The information processing system according  
to claim 52, wherein said physical device control  
25 program is a scanner control program for controlling a  
scanner engine of said peripheral.

60. The information processing system according to claim 52, wherein said physical device control program is a laser beam printer control program for controlling a laser beam printer engine of said peripheral.

61. The information processing system according to claim 52, wherein said physical device control program is an ink jet printer control program for controlling an ink jet printer engine of said peripheral.

62. The information processing system according to claim 52, wherein said logical device control program is a print job control program for controlling a laser beam printer control program, or an ink jet printer control program, or the laser beam printer control program and the ink jet printer control program of said peripheral.

63. The information processing system according to claim 52, wherein said logical device control program is a scanner job control program for controlling a scanner control program of said peripheral.

64. The information processing system according

to claim 52, wherein said logical device control  
program is a copy job control program for controlling a  
scanner control program and a laser beam printer  
control program or an ink jet printer control program,  
5 or the laser beam printer control program and the ink  
jet printer control program of said peripheral.

65. The information processing system according  
to claim 52, wherein said resource control program is a  
10 font control program for managing a font of said  
peripheral.

66. The information processing system according  
to claim 52, wherein said resource control program is a  
15 form overlay control program for managing a form  
overlay of said peripheral.

67. The information processing system according  
to claim 52, wherein said resource control program is a  
20 log control program for managing a log of said  
peripheral.

68. The information processing system according  
to claim 52, wherein said resource control program is a  
25 color profile control program for managing a color  
profile of said peripheral.